

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072523\
 Data File : VN078649.D
 Acq On : 25 Jul 2023 16:00
 Operator : JC\MD
 Sample : 03738-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 80002

Quant Time: Jul 26 04:48:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

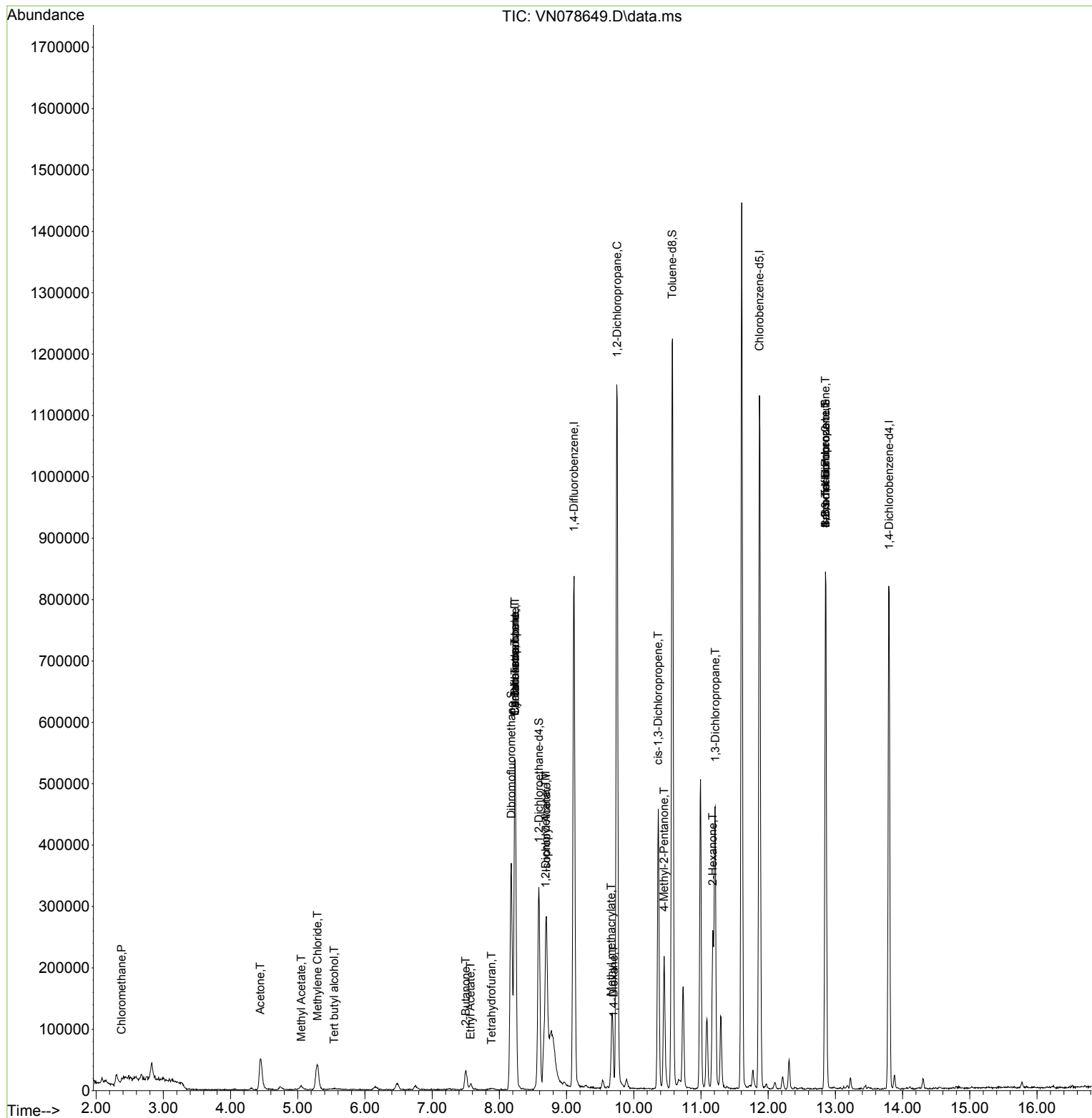
Internal Standards						
1) Pentafluorobenzene	8.229	168	419434	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	746805	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	693245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	231941	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	263278	46.822	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.640%		
35) Dibromofluoromethane	8.177	113	263808	52.038	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.080%		
50) Toluene-d8	10.571	98	893517	46.656	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.320%		
62) 4-Bromofluorobenzene	12.853	95	287888	48.803	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.600%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	2223	0.398	ug/l #	73
5) Bromomethane	2.983	94	2810	Below Cal	#	51
6) Chloroethane	3.083	64	1673	Below Cal	#	43
11) Tert butyl alcohol	5.541	59	904	1.043	ug/l #	72
16) Acetone	4.441	43	100108	57.154	ug/l	95
18) Methyl Acetate	5.053	43	12107	1.633	ug/l	98
20) Methylene Chloride	5.294	84	36202	6.133	ug/l	93
25) 2-Butanone	7.500	43	48000	17.409	ug/l #	84
29) Tetrahydrofuran	7.882	42	1315	0.727	ug/l #	30
31) Cyclohexane	8.229	56	9163	1.206	ug/l #	49
36) 1,1-Dichloropropene	8.229	75	33172	4.532	ug/l #	49
37) Ethyl Acetate	7.571	43	14570	2.388	ug/l #	72
38) Carbon Tetrachloride	8.235	117	42731	5.371	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2254	0.306	ug/l #	73
43) Isopropyl Acetate	8.700	43	373672	37.195	ug/l #	73
45) 1,2-Dichloropropane	9.753	63	1828	0.333	ug/l #	45
48) Methyl methacrylate	9.665	41	6383	1.371	ug/l #	31
49) 1,4-Dioxane	9.700	88	76	0.749	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	138944	23.252	ug/l	90
54) cis-1,3-Dichloropropene	10.365	75	82680	9.770	ug/l #	68
57) 1,3-Dichloropropane	11.212	76	5733	0.637	ug/l #	42
59) 2-Hexanone	11.176	43	248511	58.515	ug/l #	19
71) Bromoform	12.853	173	2539	0.629	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.941	83	425	Below Cal	#	46
76) 1,2,3-Trichloropropane	12.853	75	152215	27.151	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	152215	71.347	ug/l #	15
90) Hexachloroethane	14.335	117	66	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.700	75	71	Below Cal	#	4

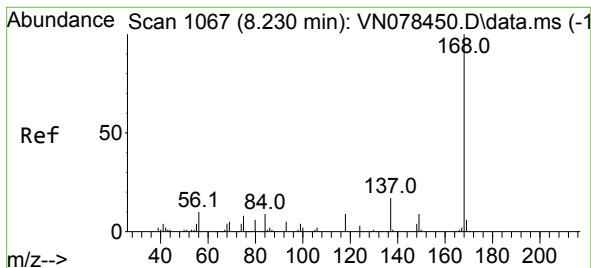
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072523\
Data File : VN078649.D
Acq On : 25 Jul 2023 16:00
Operator : JC\MD
Sample : 03738-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
80002

Quant Time: Jul 26 04:48:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 10

Delta R.T. -0.001 min

Lab File: VN078649.D

Acq: 25 Jul 2023 16:00

Instrument :

MSVOA_N

ClientSampleId :

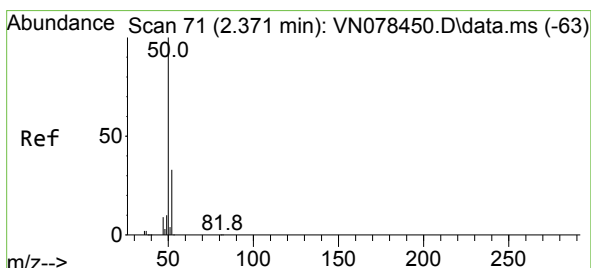
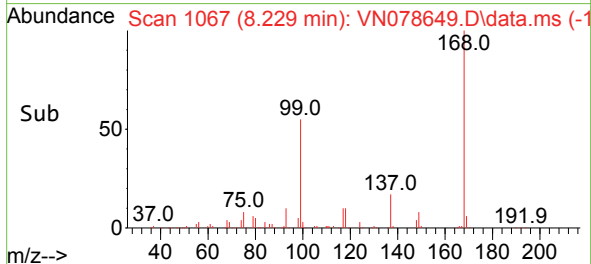
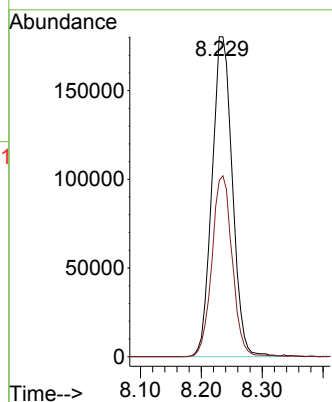
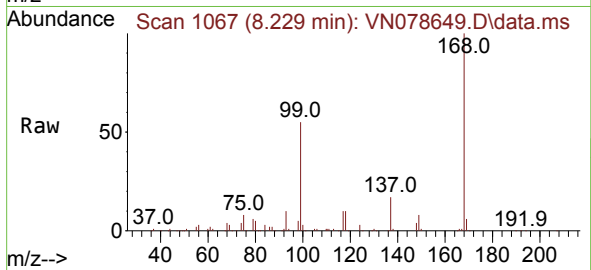
80002

Tgt Ion:168 Resp: 419434

Ion Ratio Lower Upper

168 100

99 55.1 53.0 79.6



#3

Chloromethane

Concen: 0.398 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078649.D

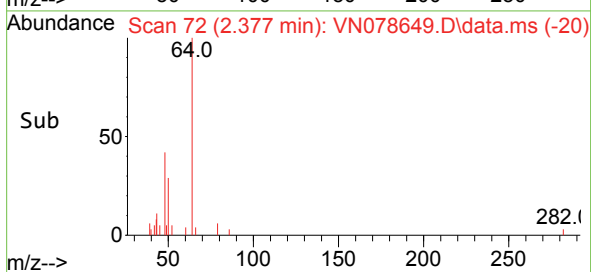
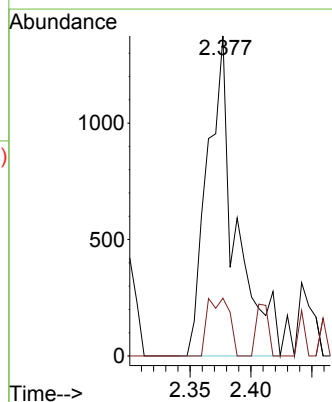
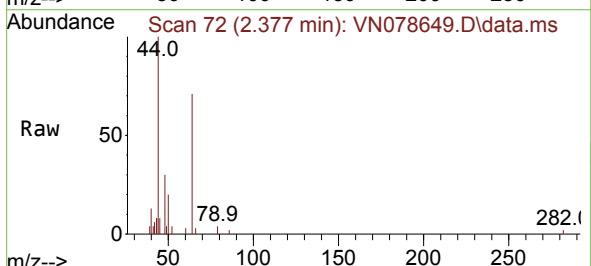
Acq: 25 Jul 2023 16:00

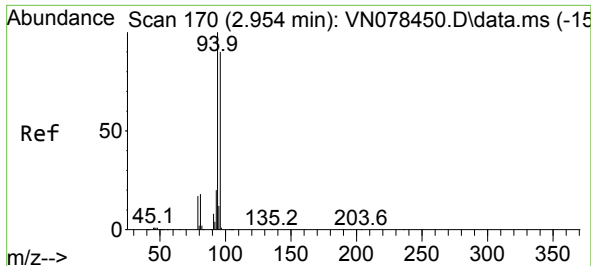
Tgt Ion: 50 Resp: 2223

Ion Ratio Lower Upper

50 100

52 18.0 26.5 39.7#

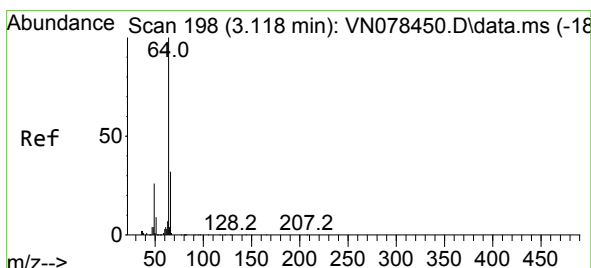
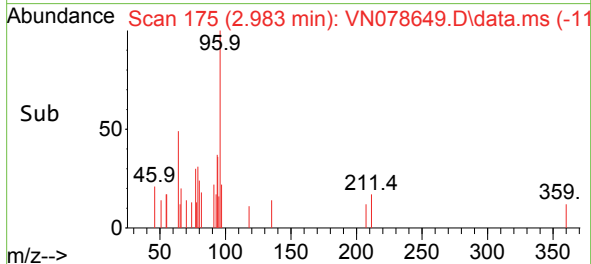
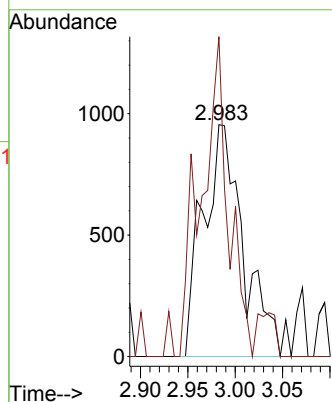
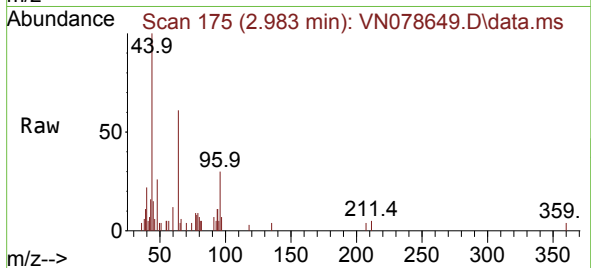




#5
Bromomethane
Concen: Below Cal
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

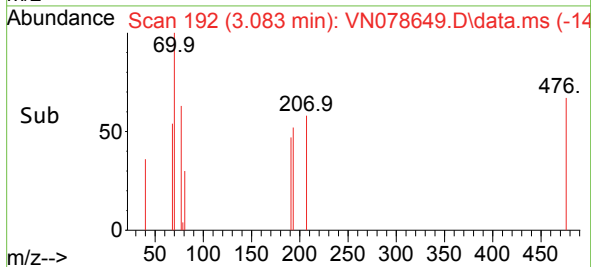
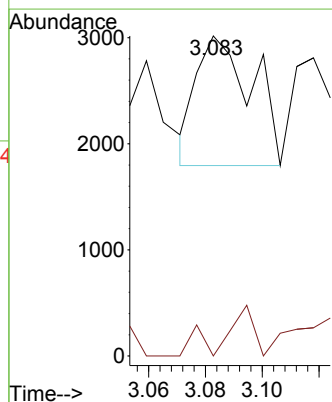
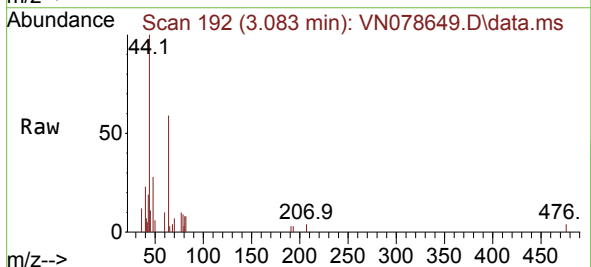
Instrument :
MSVOA_N
ClientSampleId :
80002

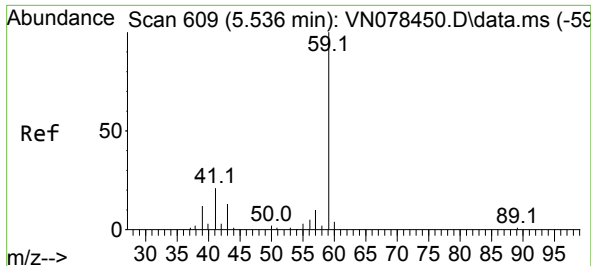
Tgt Ion: 94 Resp: 2810
Ion Ratio Lower Upper
94 100
96 137.9 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.083 min Scan# 192
Delta R.T. -0.035 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 64 Resp: 1673
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

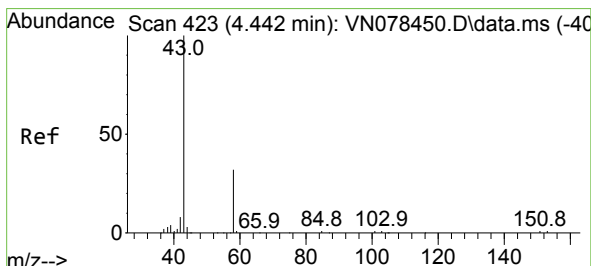
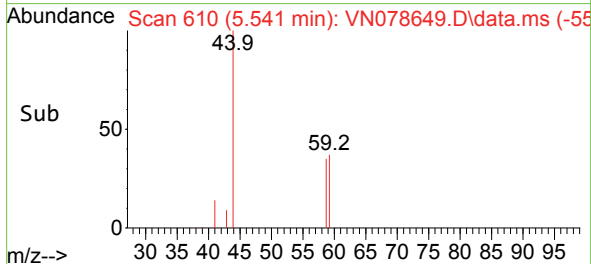
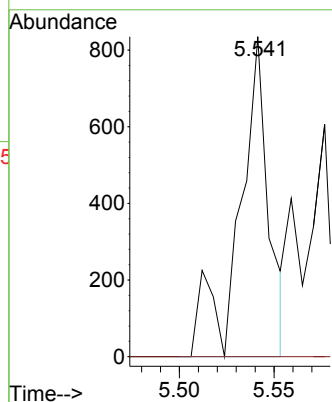
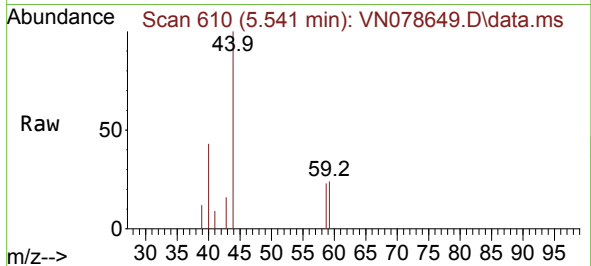




#11
Tert butyl alcohol
Concen: 1.043 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.005 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

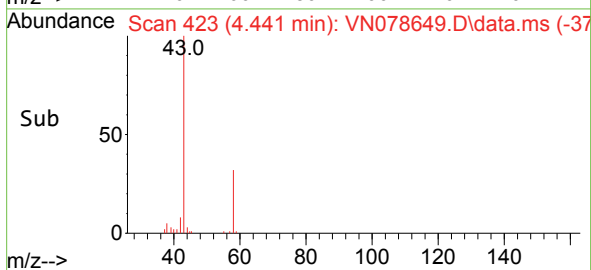
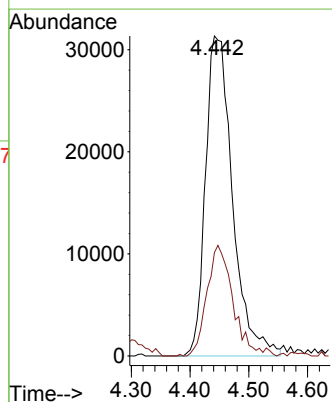
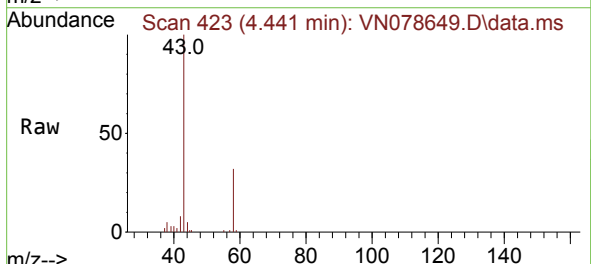
Instrument :
MSVOA_N
ClientSampleId :
80002

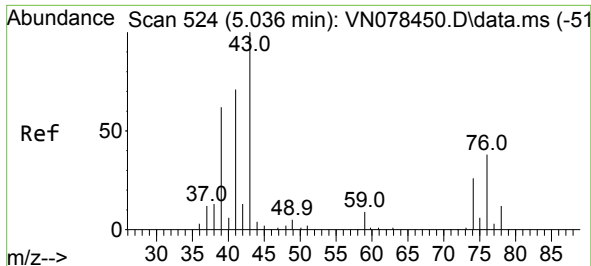
Tgt Ion: 59 Resp: 904
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 57.154 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.001 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 43 Resp: 100108
Ion Ratio Lower Upper
43 100
58 31.8 28.0 42.0

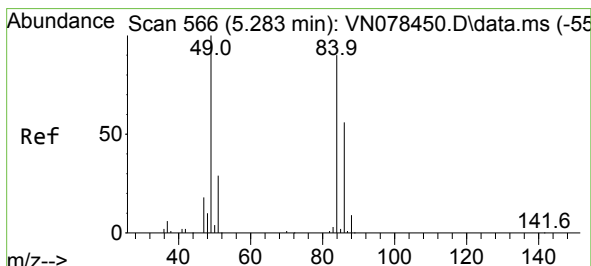
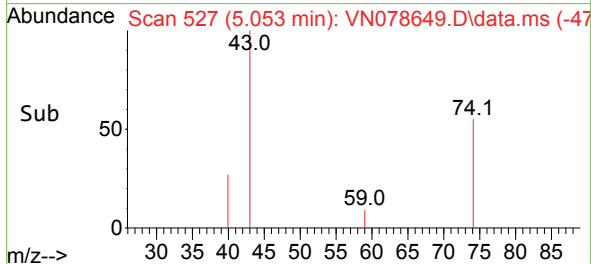
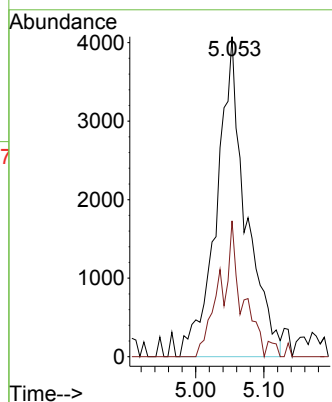
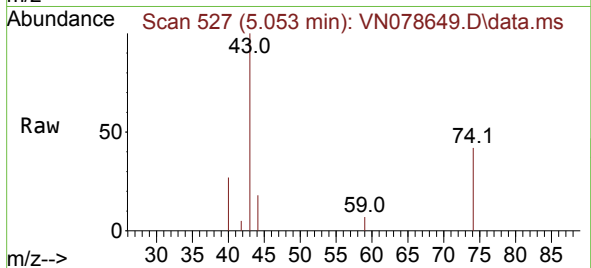




#18
Methyl Acetate
Concen: 1.633 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

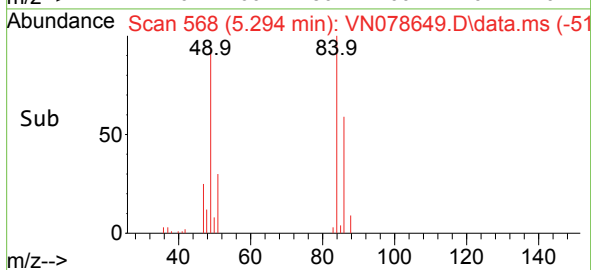
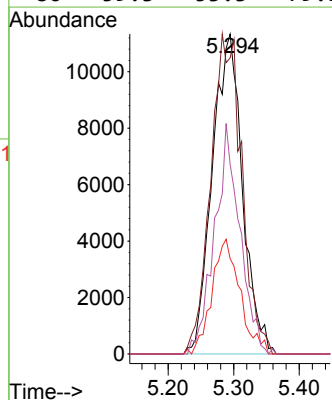
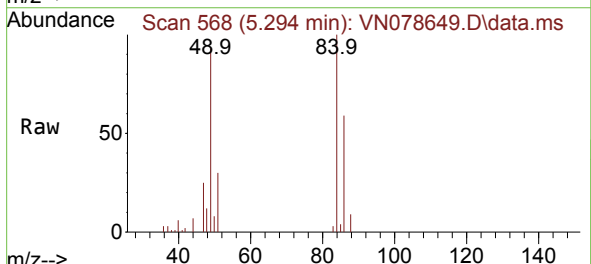
Instrument :
MSVOA_N
ClientSampleId :
80002

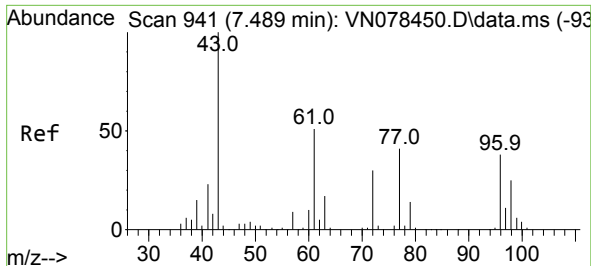
Tgt Ion: 43 Resp: 12107
Ion Ratio Lower Upper
43 100
74 31.7 26.2 39.4



#20
Methylene Chloride
Concen: 6.133 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 84 Resp: 36202
Ion Ratio Lower Upper
84 100
49 92.5 79.7 119.5
51 29.8 25.2 37.8
86 59.3 53.3 79.9





#25

2-Butanone

Concen: 17.409 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.011 min

Lab File: VN078649.D

Acq: 25 Jul 2023 16:00

Instrument :

MSVOA_N

ClientSampleId :

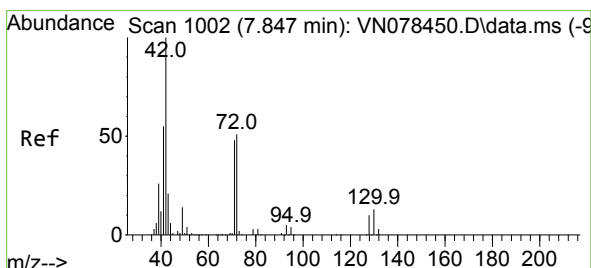
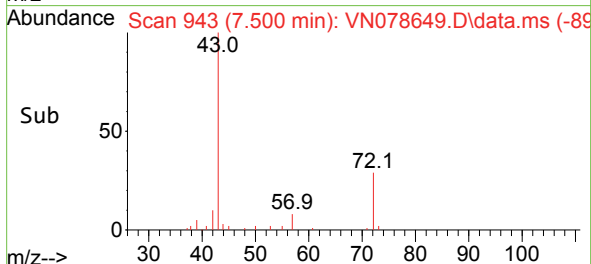
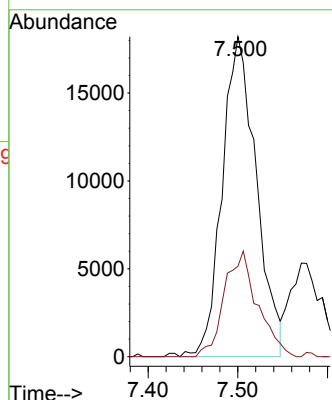
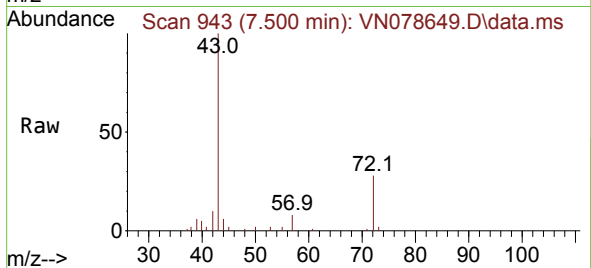
80002

Tgt Ion: 43 Resp: 48000

Ion Ratio Lower Upper

43 100

72 28.3 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.727 ug/l

RT: 7.882 min Scan# 1008

Delta R.T. 0.035 min

Lab File: VN078649.D

Acq: 25 Jul 2023 16:00

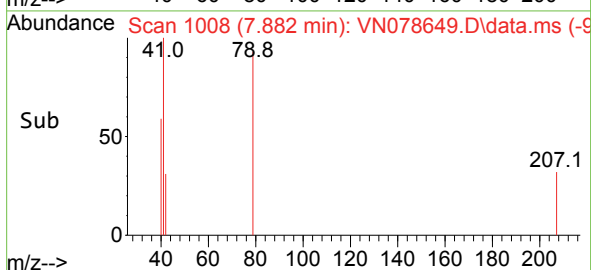
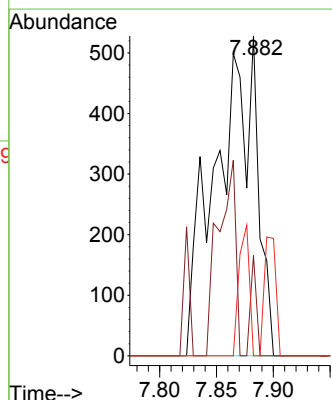
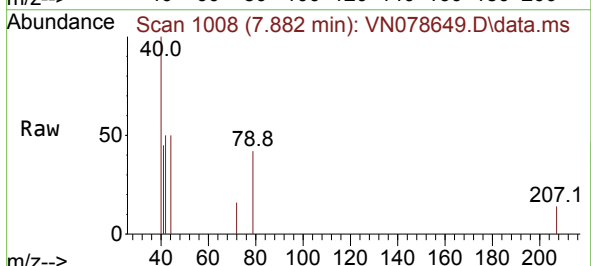
Tgt Ion: 42 Resp: 1315

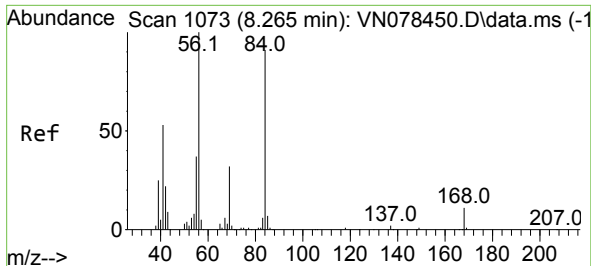
Ion Ratio Lower Upper

42 100

72 4.5 49.8 74.6#

71 10.3 47.4 71.2#

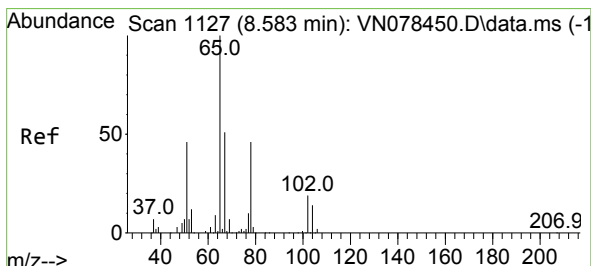
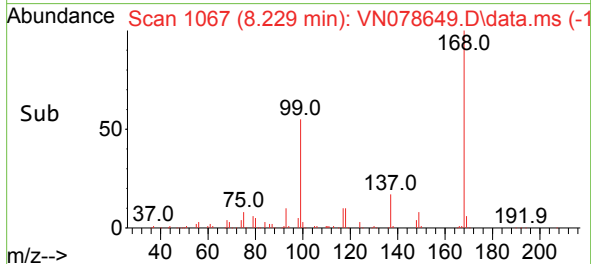
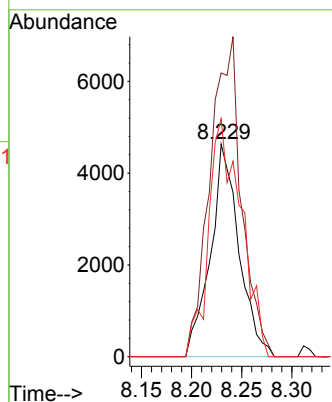
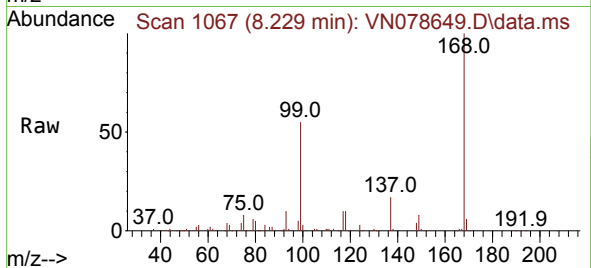




#31
Cyclohexane
Concen: 1.206 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

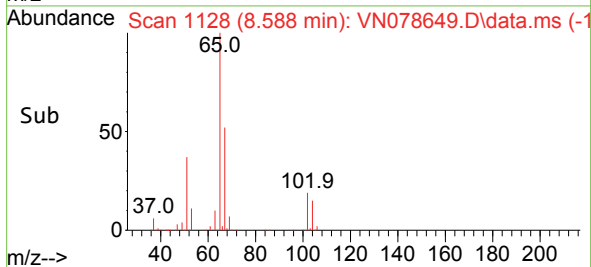
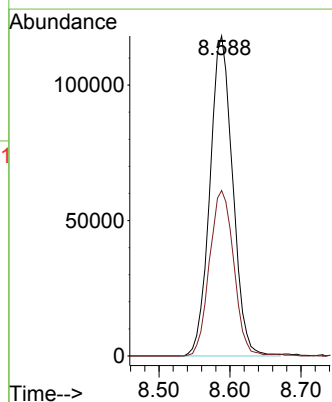
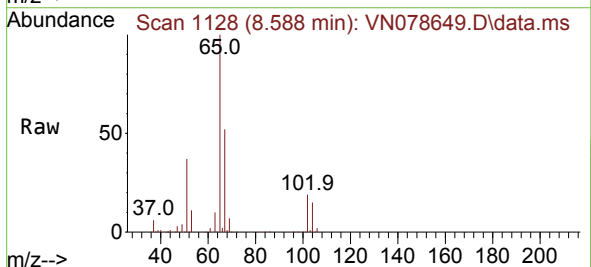
Instrument :
MSVOA_N
ClientSampleId :
80002

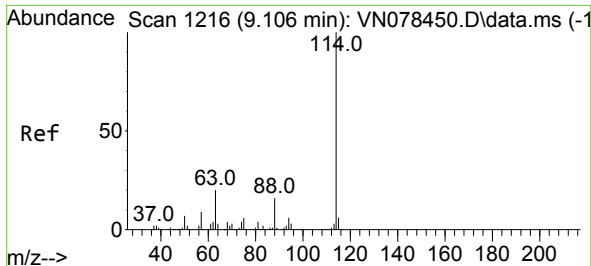
Tgt Ion: 56 Resp: 9163
Ion Ratio Lower Upper
56 100
69 133.5 26.8 40.2#
84 111.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 46.822 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 65 Resp: 263278
Ion Ratio Lower Upper
65 100
67 54.8 0.0 106.6

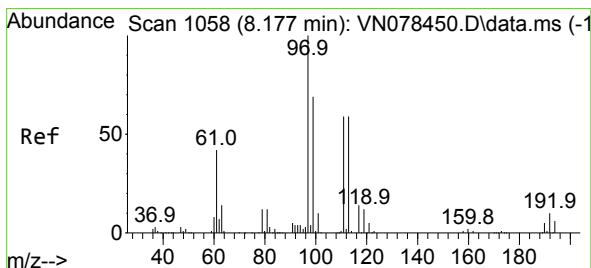
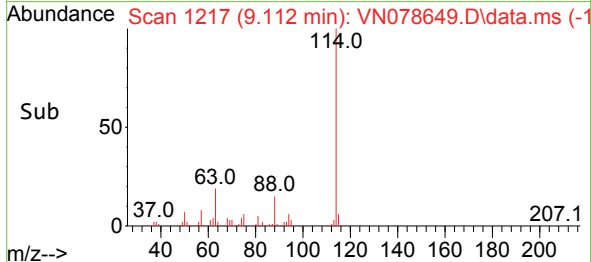
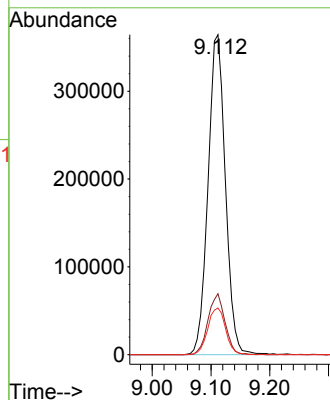
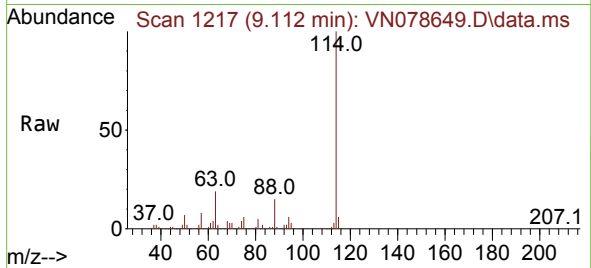




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

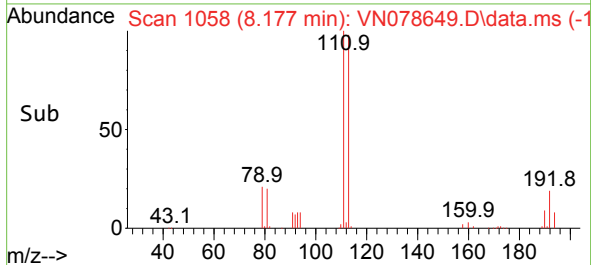
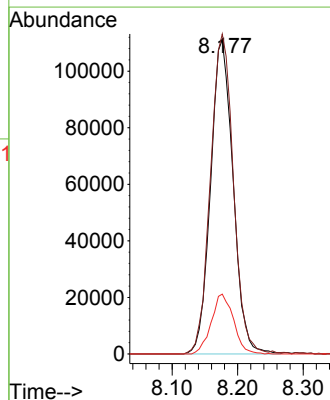
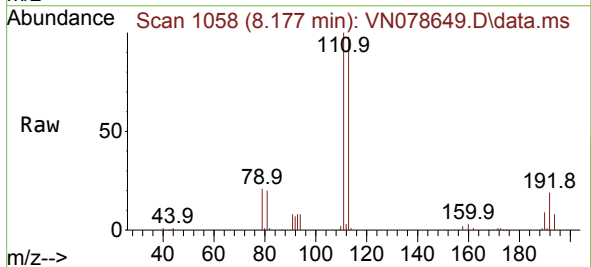
Instrument :
MSVOA_N
ClientSampleId :
80002

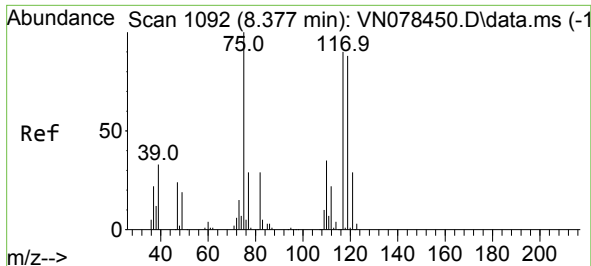
Tgt Ion:114 Resp: 746805
Ion Ratio Lower Upper
114 100
63 19.0 0.0 36.4
88 14.6 0.0 30.6



#35
Dibromofluoromethane
Concen: 52.038 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion:113 Resp: 263808
Ion Ratio Lower Upper
113 100
111 104.2 82.6 123.8
192 18.9 12.7 19.1

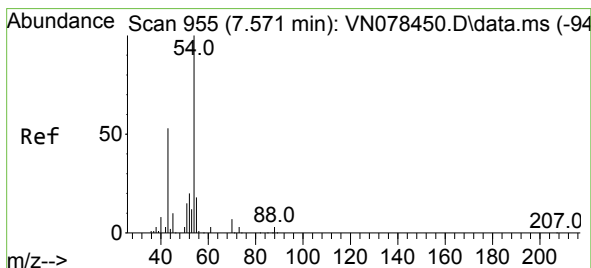
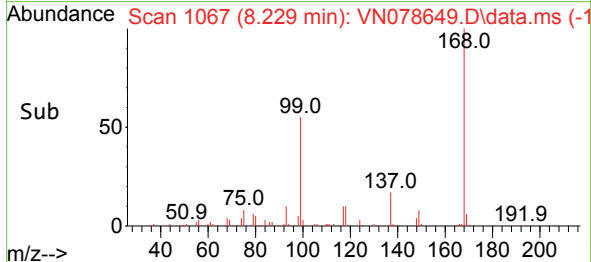
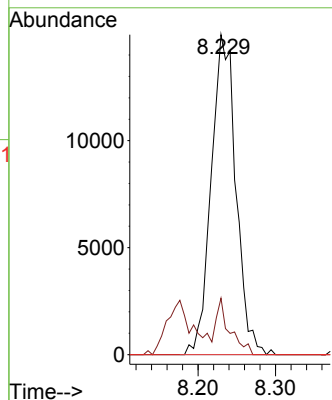
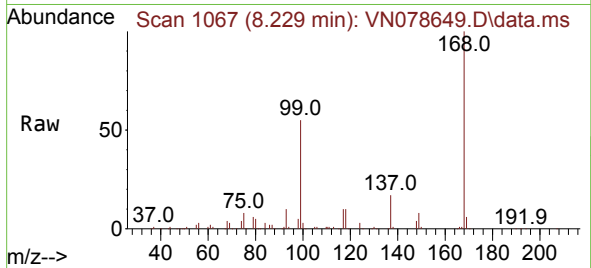




#36
1,1-Dichloropropene
Concen: 4.532 ug/l
RT: 8.229 min Scan# 1092
Delta R.T. -0.148 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

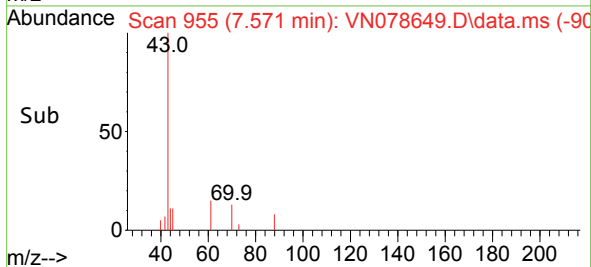
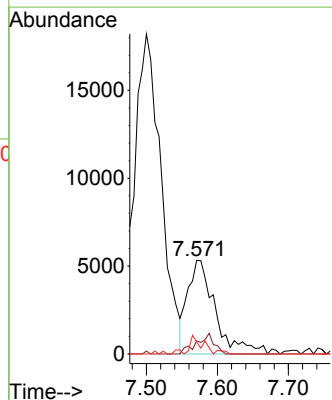
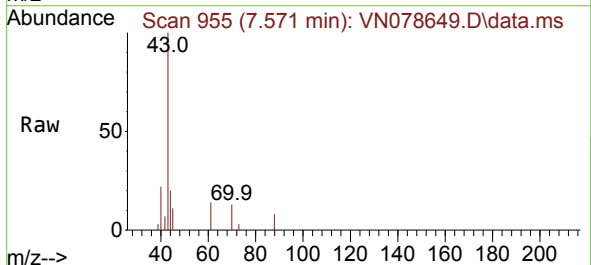
Instrument :
MSVOA_N
ClientSampleId :
80002

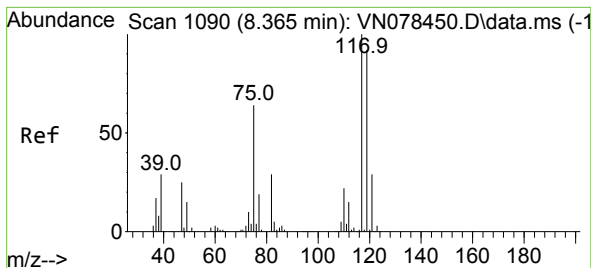
Tgt Ion: 75 Resp: 33172
Ion Ratio Lower Upper
75 100
110 9.6 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 2.388 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 43 Resp: 14570
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 8.1 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.371 ug/l

RT: 8.235 min Scan# 1106

Delta R.T. -0.130 min

Lab File: VN078649.D

Acq: 25 Jul 2023 16:00

Instrument :

MSVOA_N

ClientSampleId :

80002

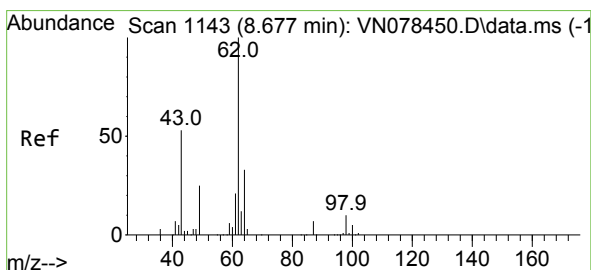
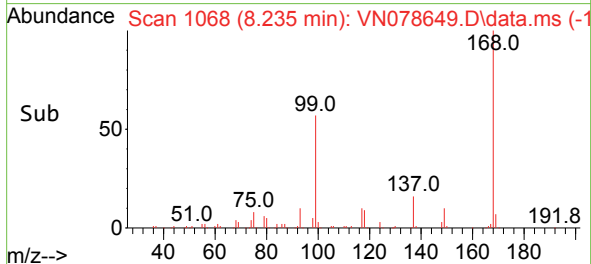
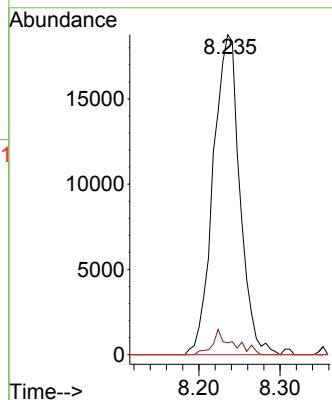
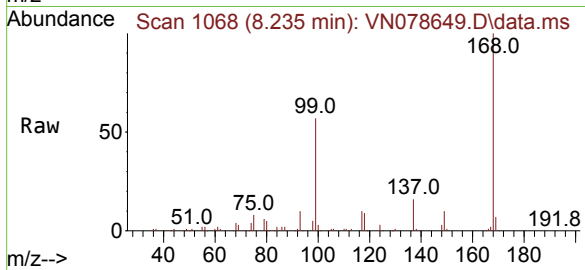
Tgt Ion:117 Resp: 42731

Ion Ratio Lower Upper

117 100

119 3.7 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.306 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN078649.D

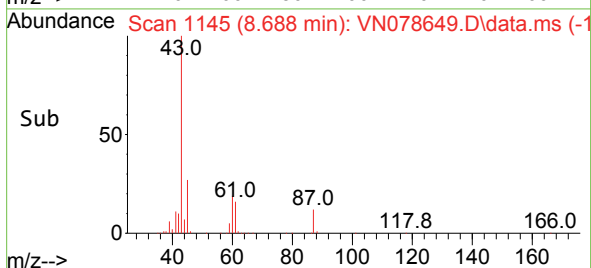
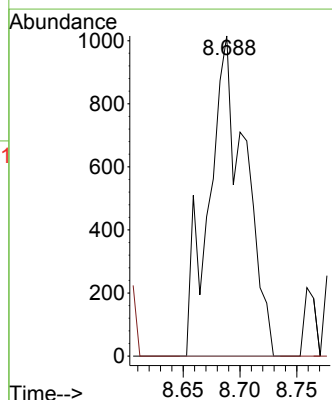
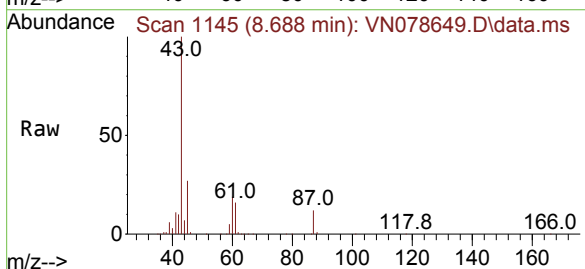
Acq: 25 Jul 2023 16:00

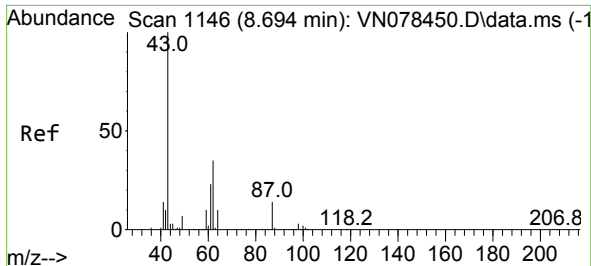
Tgt Ion: 62 Resp: 2254

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

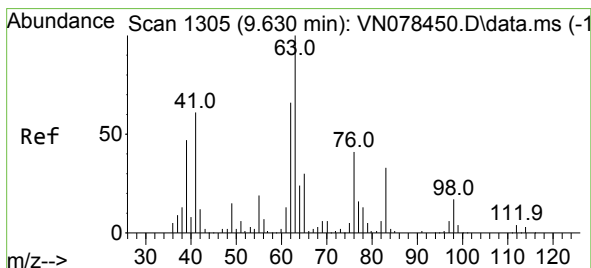
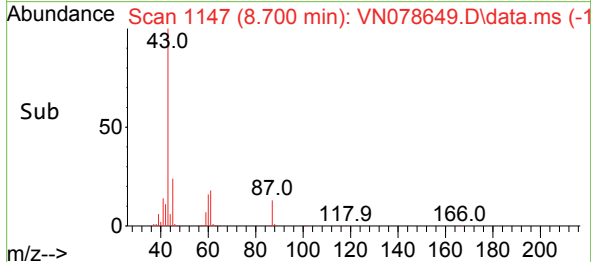
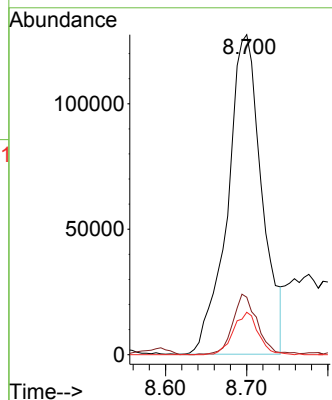
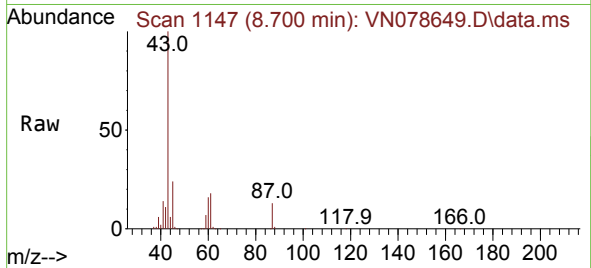




#43
Isopropyl Acetate
Concen: 37.195 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

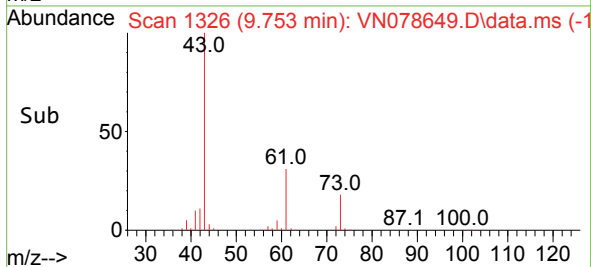
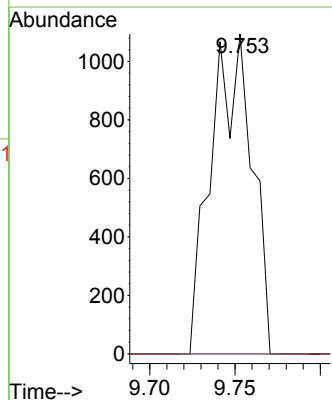
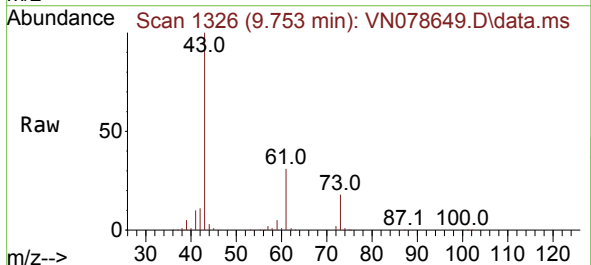
Instrument :
MSVOA_N
ClientSampleId :
80002

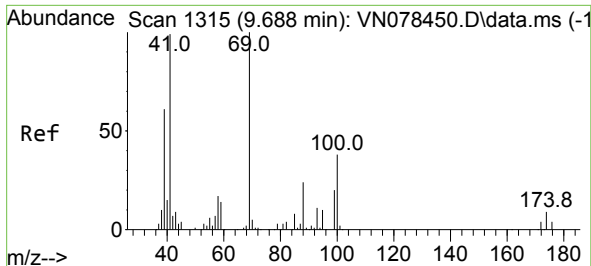
Tgt Ion: 43 Resp: 373672
Ion Ratio Lower Upper
43 100
61 13.6 24.7 37.1#
87 9.7 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.333 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.123 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 63 Resp: 1828
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

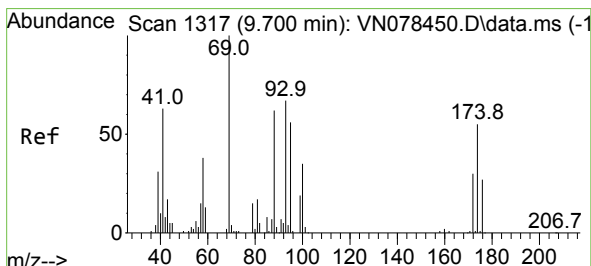
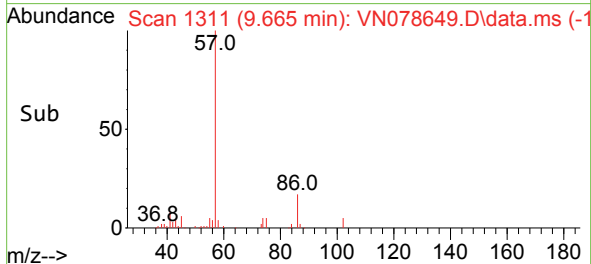
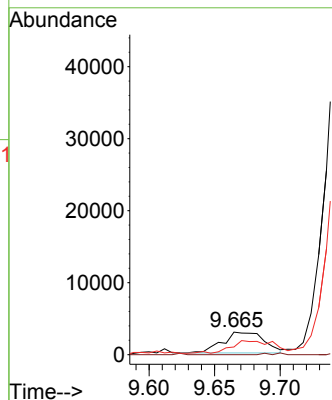
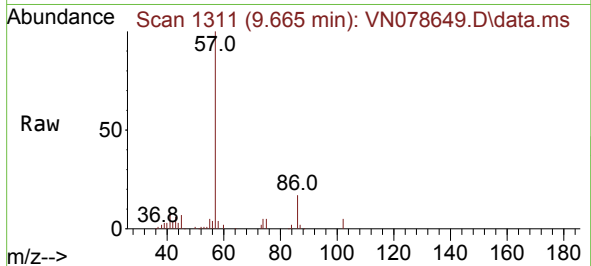




#48
Methyl methacrylate
Concen: 1.371 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.023 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

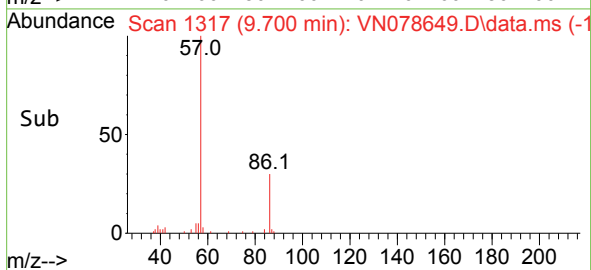
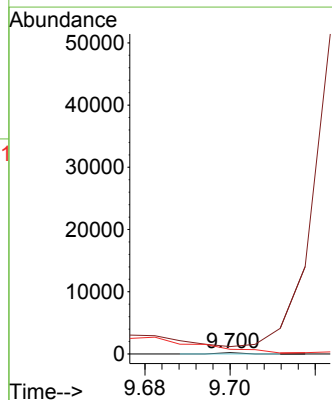
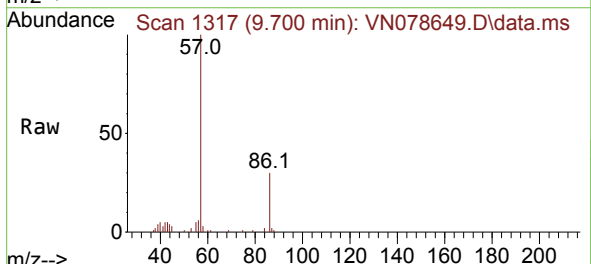
Instrument :
MSVOA_N
ClientSampleId :
80002

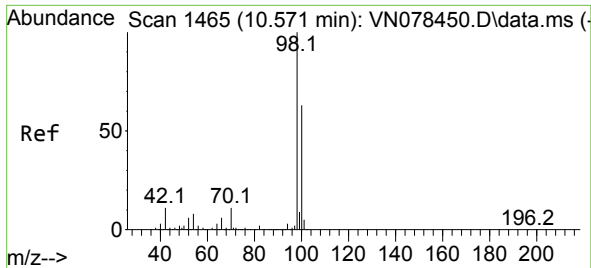
Tgt Ion: 41 Resp: 6383
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 61.4 54.6 81.8



#49
1,4-Dioxane
Concen: 0.749 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 7227.6 47.0 70.4#

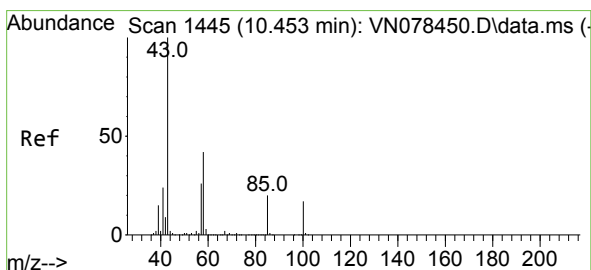
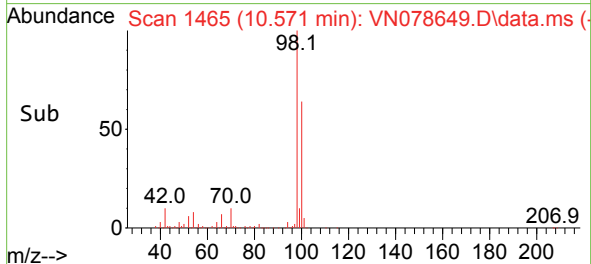
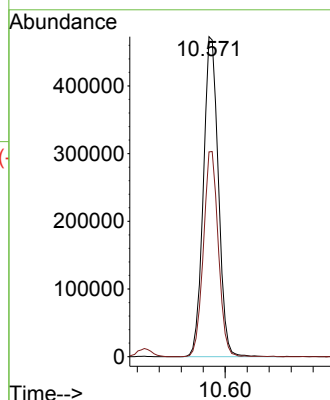
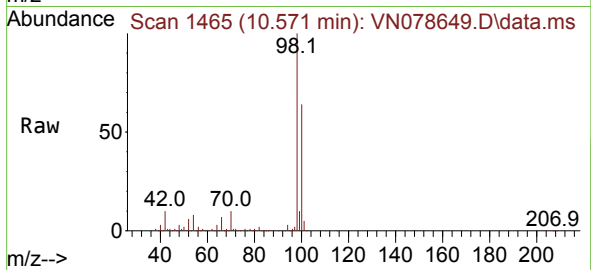




#50
Toluene-d8
Concen: 46.656 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

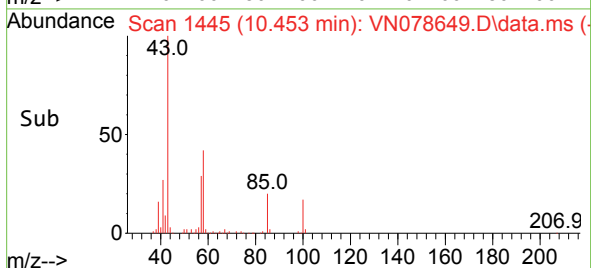
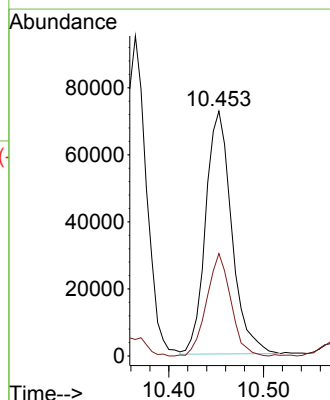
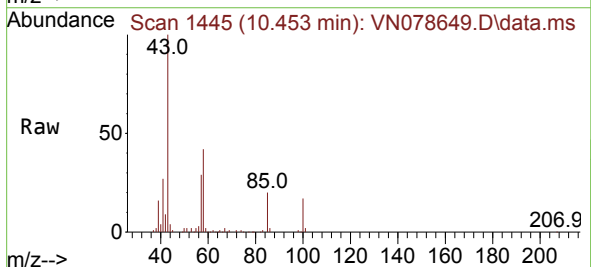
Instrument :
MSVOA_N
ClientSampleId :
80002

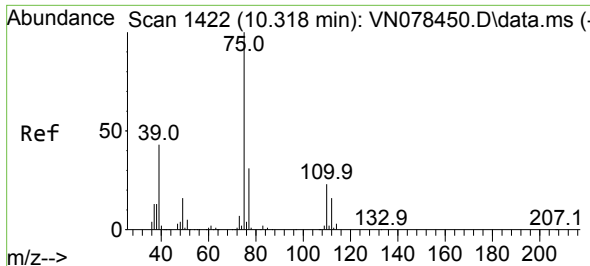
Tgt Ion: 98 Resp: 893517
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 23.252 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 43 Resp: 138944
Ion Ratio Lower Upper
43 100
58 39.0 36.6 54.8

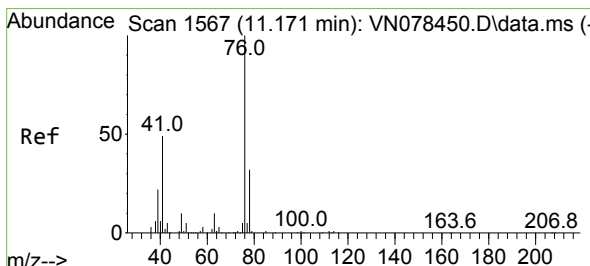
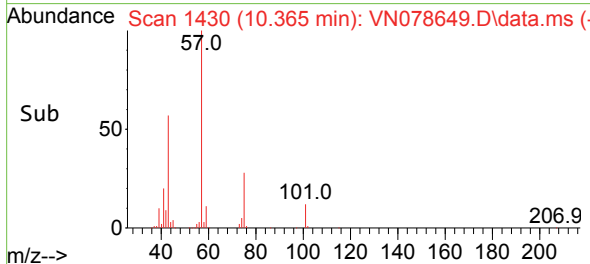
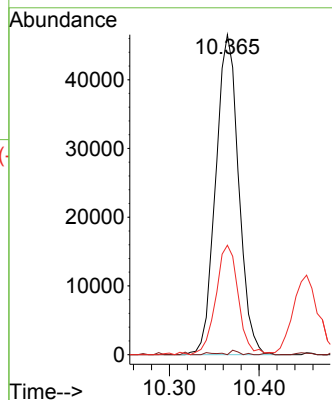
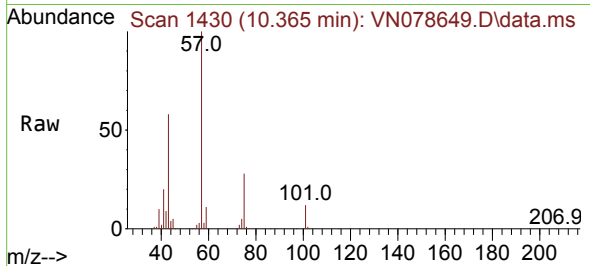




#54
 cis-1,3-Dichloropropene
 Concen: 9.770 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078649.D
 Acq: 25 Jul 2023 16:00

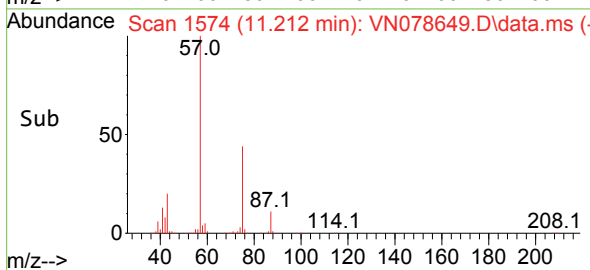
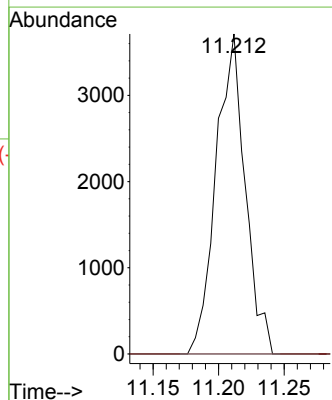
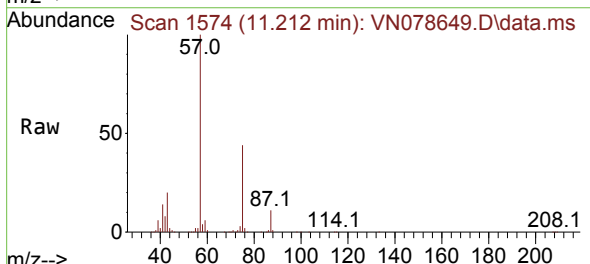
Instrument :
 MSVOA_N
 ClientSampleId :
 80002

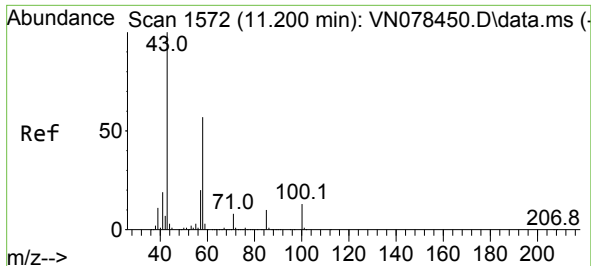
Tgt Ion: 75 Resp: 82680
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 33.4 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 0.637 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.041 min
 Lab File: VN078649.D
 Acq: 25 Jul 2023 16:00

Tgt Ion: 76 Resp: 5733
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

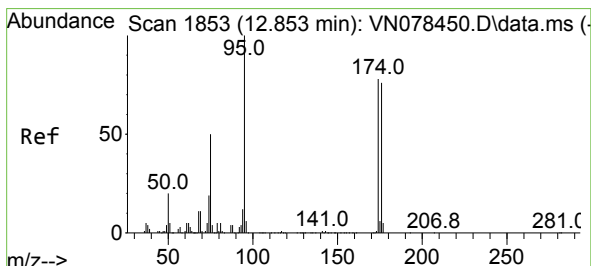
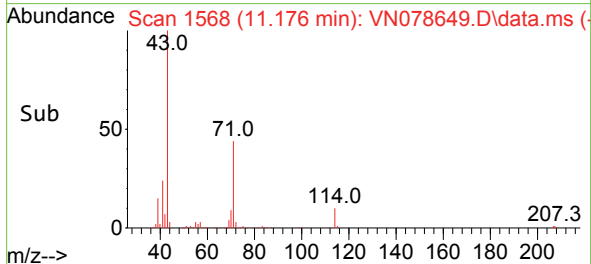
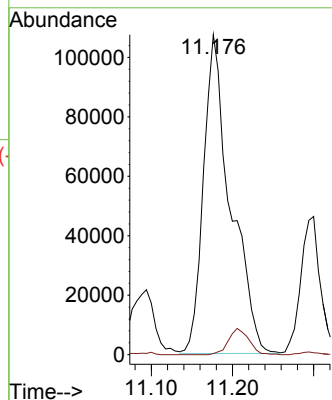
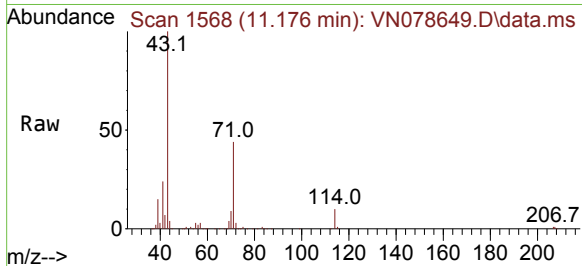




#59
2-Hexanone
Concen: 58.515 ug/l
RT: 11.176 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

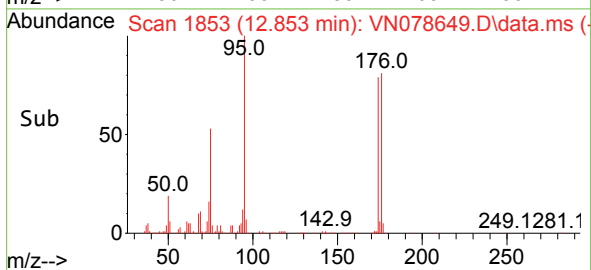
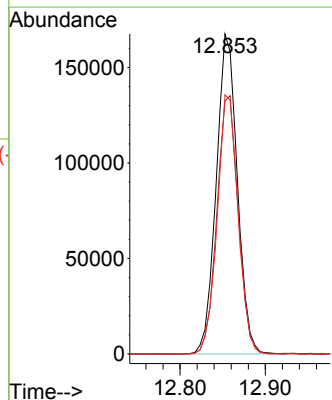
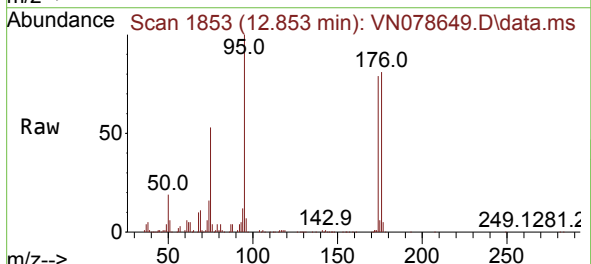
Instrument :
MSVOA_N
ClientSampleId :
80002

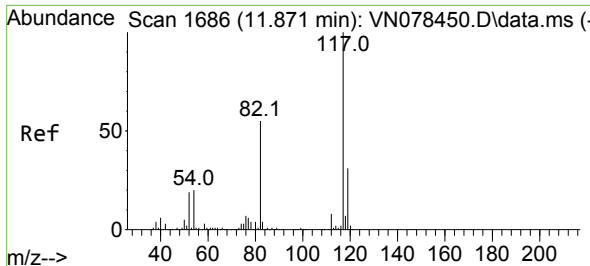
Tgt Ion: 43 Resp: 248511
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.803 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 95 Resp: 287888
Ion Ratio Lower Upper
95 100
174 81.8 0.0 143.8
176 80.0 0.0 135.8

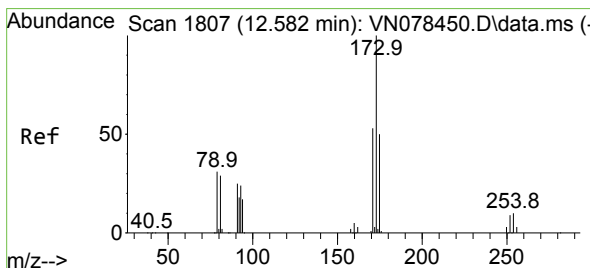
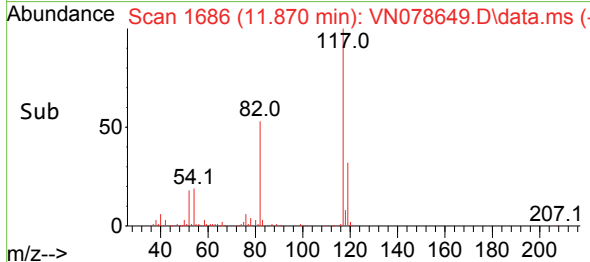
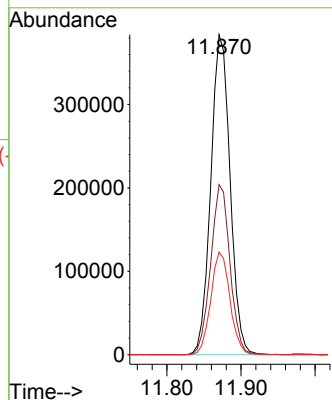
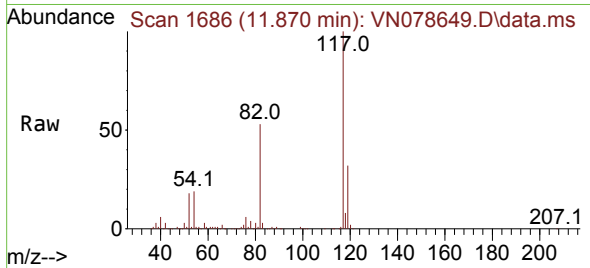




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. -0.001 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

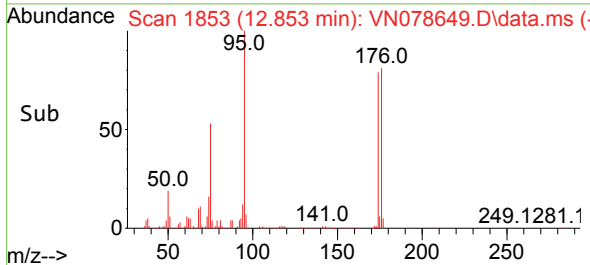
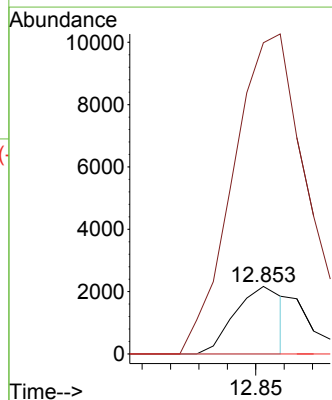
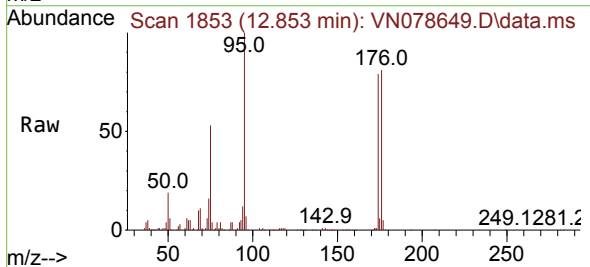
Instrument :
MSVOA_N
ClientSampleId :
80002

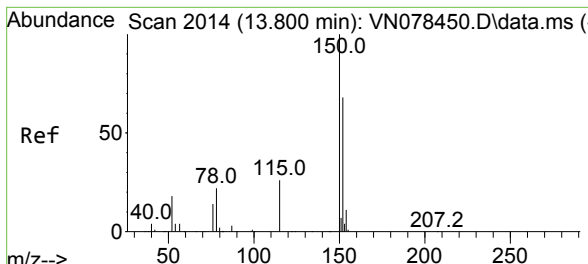
Tgt Ion:117 Resp: 693245
Ion Ratio Lower Upper
117 100
82 53.1 44.0 66.0
119 32.0 25.6 38.4



#71
Bromoform
Concen: 0.629 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion:173 Resp: 2539
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

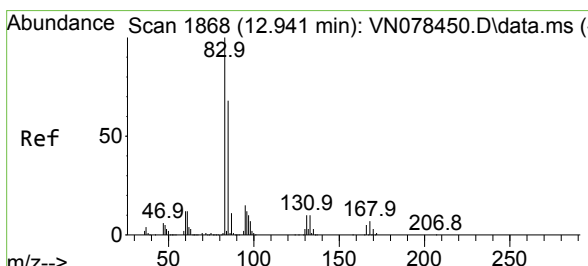
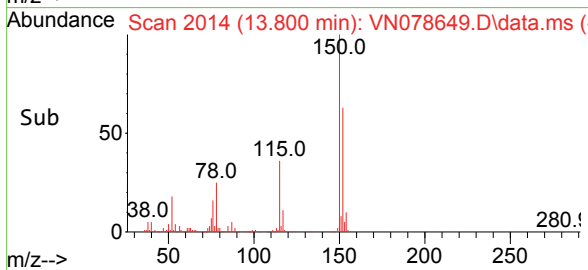
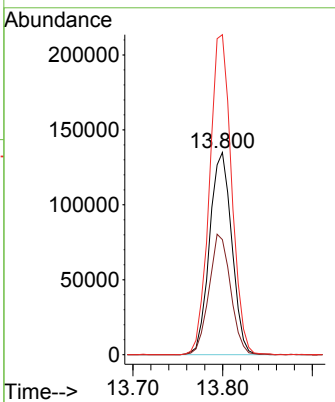
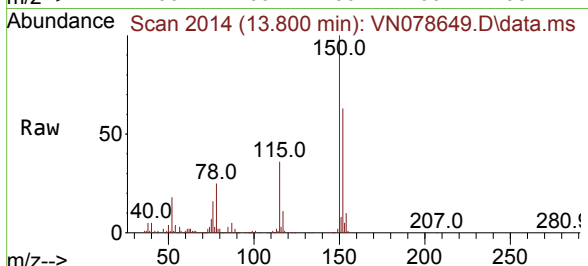




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 2014
 Delta R.T. -0.000 min
 Lab File: VN078649.D
 Acq: 25 Jul 2023 16:00

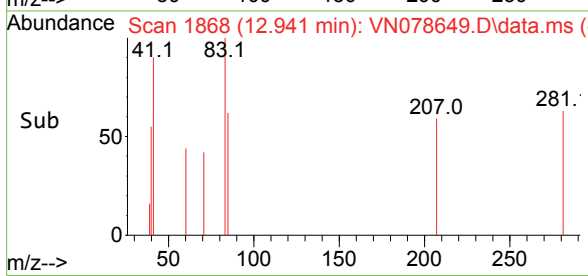
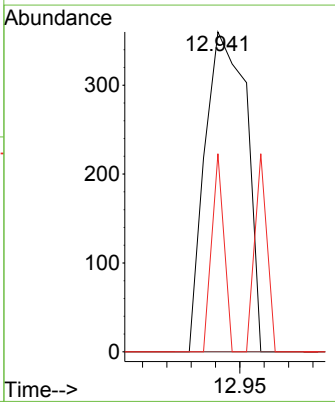
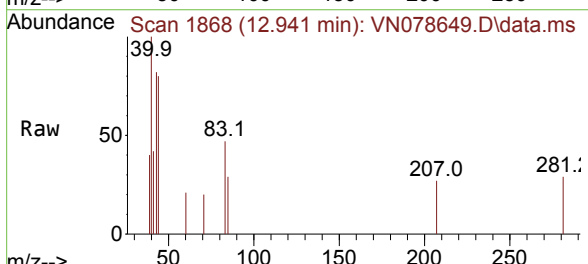
Instrument :
 MSVOA_N
 ClientSampleId :
 80002

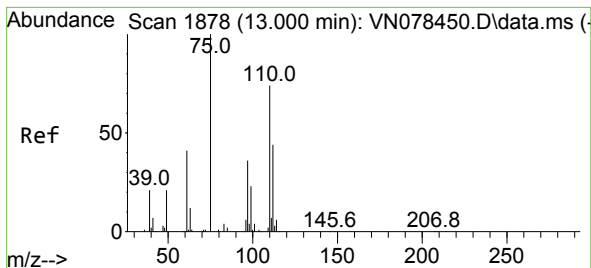
Tgt Ion:	152	Resp:	231941
Ion	Ratio	Lower	Upper
152	100		
115	57.9	32.3	96.8
150	157.3	0.0	355.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.941 min Scan# 1868
 Delta R.T. -0.000 min
 Lab File: VN078649.D
 Acq: 25 Jul 2023 16:00

Tgt Ion:	83	Resp:	425
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	18.6	31.9	95.7#

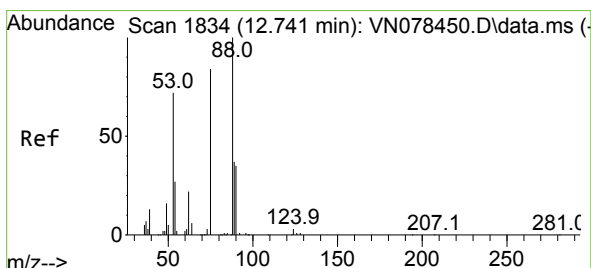
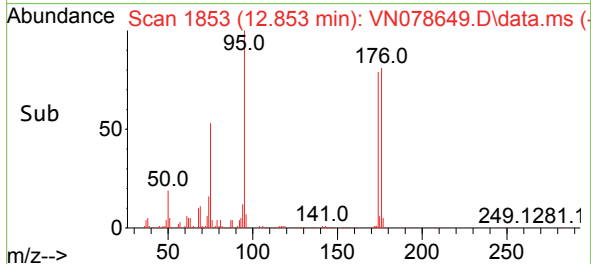
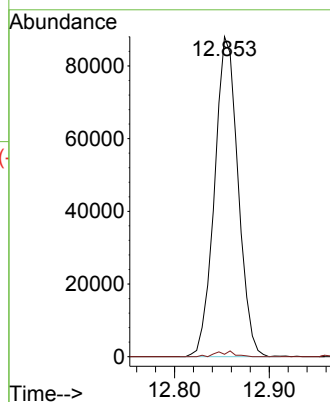
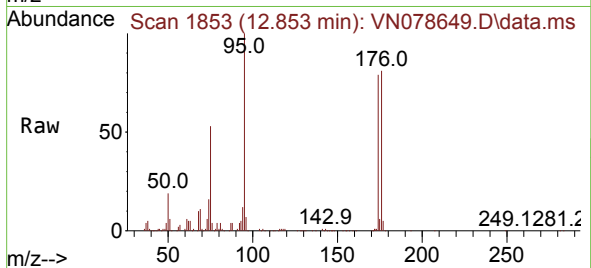




#76
1,2,3-Trichloropropane
Concen: 27.151 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

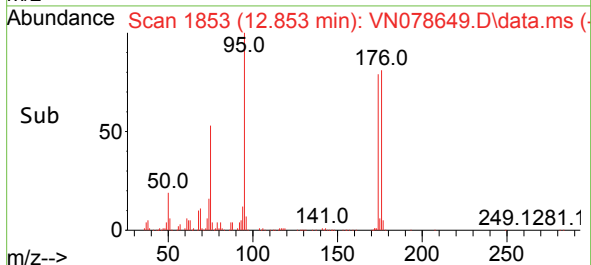
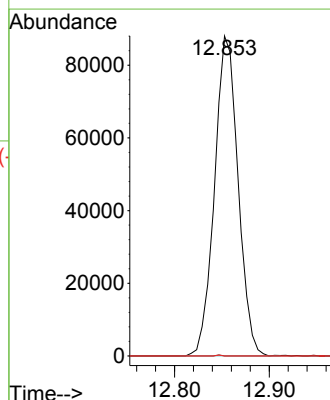
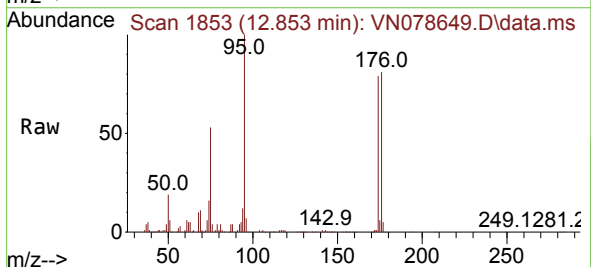
Instrument :
MSVOA_N
ClientSampleId :
80002

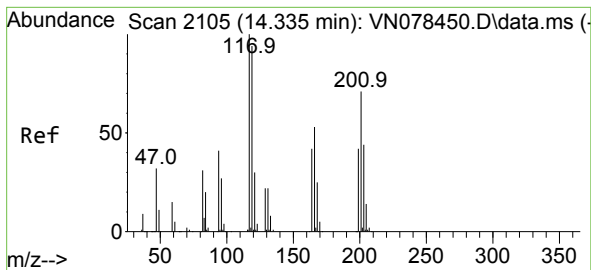
Tgt Ion: 75 Resp: 152215
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.347 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078649.D
Acq: 25 Jul 2023 16:00

Tgt Ion: 75 Resp: 152215
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN078649.D

Acq: 25 Jul 2023 16:00

Instrument :

MSVOA_N

ClientSampleId :

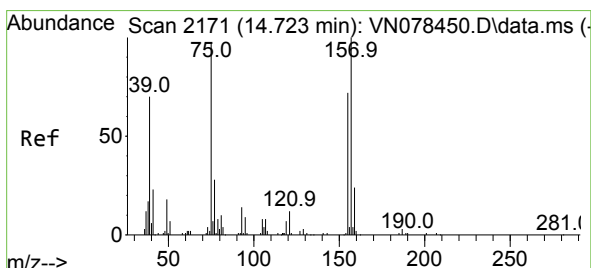
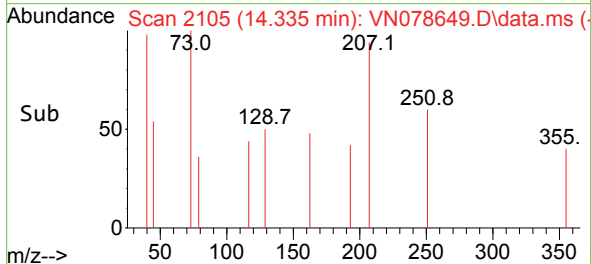
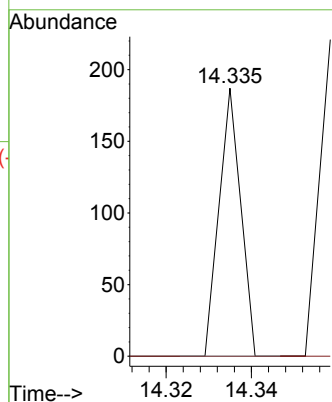
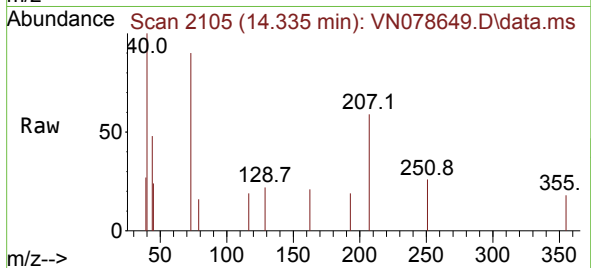
80002

Tgt Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.700 min Scan# 2167

Delta R.T. -0.023 min

Lab File: VN078649.D

Acq: 25 Jul 2023 16:00

Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#

